

MECHANIC STUDY GUIDE

Automatic Transmission

Automobile & Light Truck Repair

Listed below are a number of items and subjects which make up the mechanic certification test identified above. An individual's ability to pass the certification test will depend upon the amount of knowledge the person has concerning these items. **NOTE:** There could be up to 5 additional pre-test questions. These questions will not count but may be used on a later version of the test. Your answers to these pre-test questions will not affect your score. Since you won't know which they are, you should answer all questions.

Component Diagnosis - 8%

Hydraulic pump
Torque converter
Clutch pack clearance
Pump gear clearance

Internal Operation - 32%

Gear train end-play
Clutch band servo
Planetary gear set
Multiple disc clutch packs
Passing gear operation
Lock-up converters
Vacuum modulator
Valve body shift valves
Shift points
Governor operation
TPS (throttle position sensor)
operation

General Diagnosis - 18%

Harsh engagement
Governor malfunctions
Fluid diagnosis
Glazed band diagnosis
Fluid leak diagnosis
Pressure testing
Spool valve diagnosis
Burned clutch diagnosis
Fluid loss diagnosis

Driveability Diagnosis 28%

Downshift problems
Improper shifting
Upshifting problems
Modulator problems
Shift linkage adjustment
No drive diagnosis
Creeps in neutral
Restricted filter
Noisy transmission
Slipping Transmission
Sluggish operation

Repair Procedures - 6%

Transmission remove & replace
Stator support bushing wear
Cooler line repair
Pump to converter engagement

Miscellaneous - 8%

Valve identification
Fluid types
Transaxle knowledge
Valve body components
Direct drive condition

SAMPLE QUESTION:

It takes a moment for the car to move after the gear selector has been placed in "drive." Which of the following would cause this problem?

- A. A defective neutral safety switch.
- B. A partially plugged screen.
- C. An inoperative lock-up converter clutch.
- D. None of the above.

ANSWER: B